

009260" 26704960

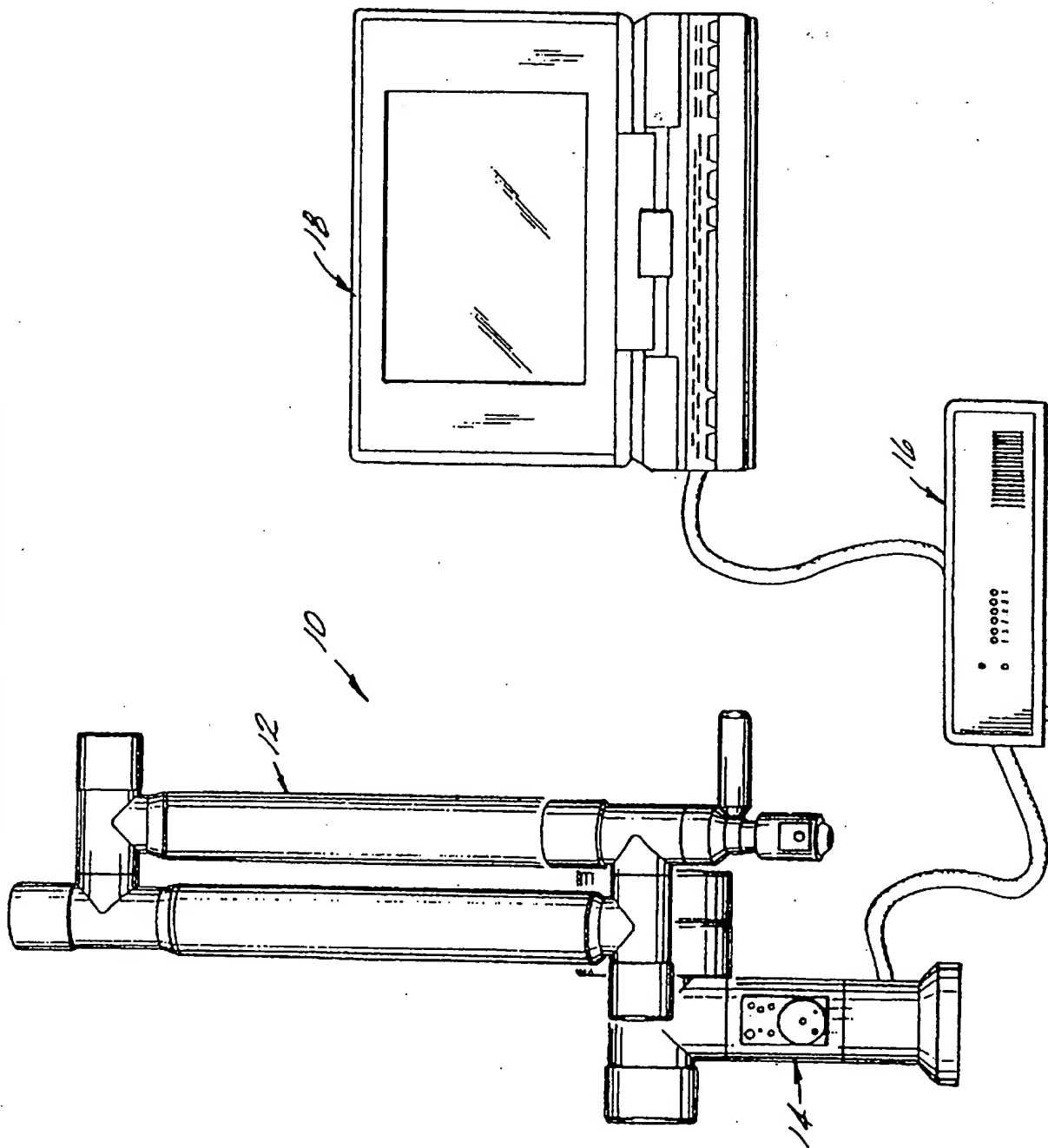


FIG. 1
(PRIOR ART)

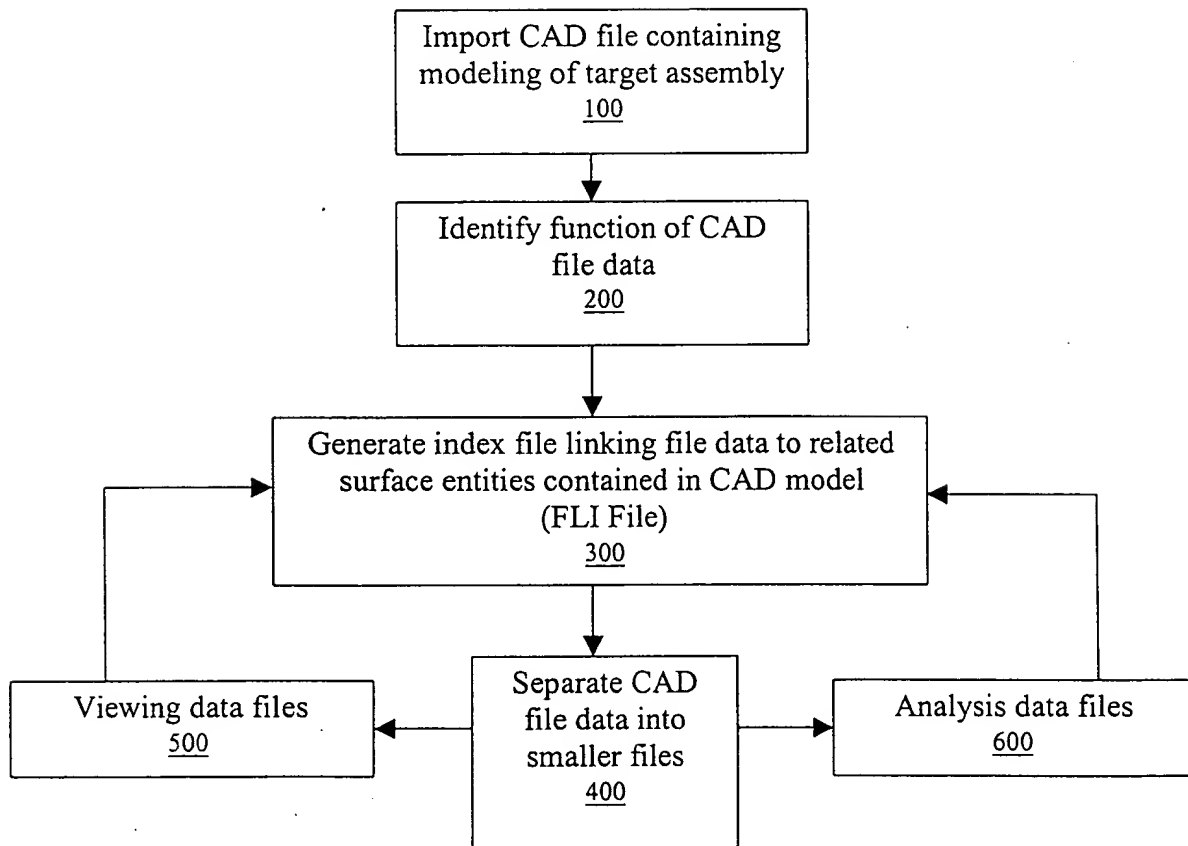


FIG. 2

VIEWING DATA FILES - 500

ANALYSIS DATA FILES - 600

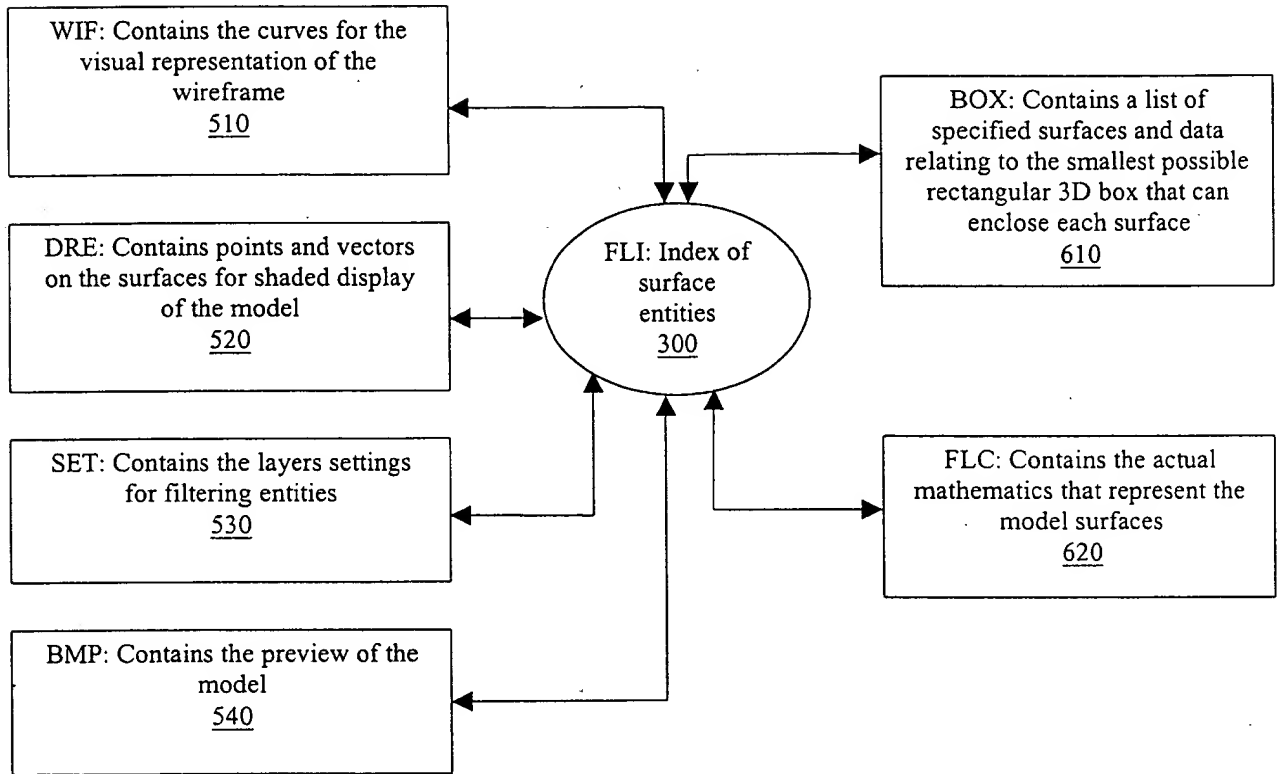


FIG. 3

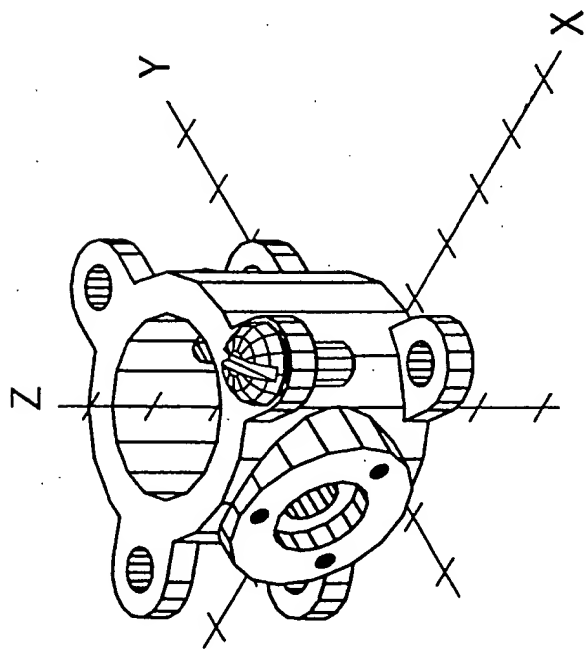


FIG. 4

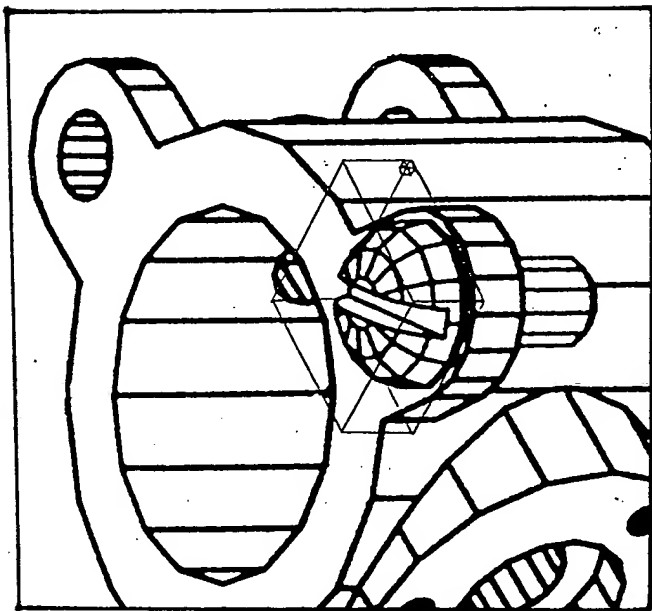


FIG. 5

```

graph TD
    1000[Assembly identified for inspection  
1000] --> 1100[CAD file associated with the CAD  
model of the identified assembly  
translated into CAM2 format  
1100]
    1100 --> 1200[3D selection boxes generated enclosing  
inspection surfaces on CAD model and  
data stored in Box file  
1200]
    1200 --> 1400[Measurement taken and recorded of the  
relative position of a point on the  
inspection surface  
1400]
    1400 --> 1500[Box file used to identify a selection box  
containing or closest to the recorded point  
1500]
    1500 --> 1600[Surface data extracted for identified  
selection box surface  
1600]
    1600 --> 1700[Distance from measured surface point  
to CAD model surface is calculated  
1700]

```

FIG. 6